(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



! COLIS CHATCH IN COLIC CHAN CHAN COM COLI IN UN COM COLO CHAN CAN COLIC CHAN COLIC CHAN COLIC CHAN COLIC CHAN

(43) International Publication Date 15 January 2004 (15.01.2004)

PCT

(10) International Publication Number WO 2004/005167 A1

(51) International Patent Classification7: 15/54

B65G 21/18,

(21) International Application Number:

PCT/SE2003/001094

25 June 2003 (25.06.2003) (22) International Filing Date:

(25) Filing Language:

Swedish

(26) Publication Language:

English

(30) Priority Data: 0202117-8

8 July 2002 (08.07.2002) SE

(71) Applicant (for all designated States except US): FRIGOSCANDIA EQUIPMENT AB [SE/SE]; Box 913, S-251 09 Helsingborg (SE).

(72) Inventors; and

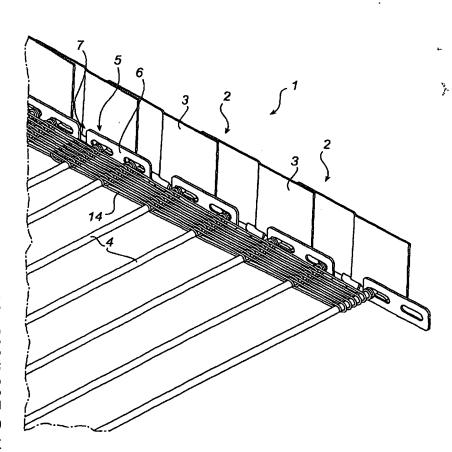
(75) Inventors/Applicants (for US only): OLSSON, Lennart

[SE/SE]; Brovägen 21, S-260 41 Nyhamnsläge (SE). MALMBERG, Jonny [SE/SE]; Krika Skog 2228, S-264 92 Klippan (SE).

- (74) Agent: AWAPATENT AB; Box 5117, S-200 71 Malmö (SE).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ. OM. PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: CONVEYOR BELT



(57) Abstract: An endless conveyor belt for an air conditioning plant, in which the conveyor belt extends helically along part of its length, comprising transverse rods (4) and lateral elements (3). The conveyor belt is characterised in that the lateral elements (3) are connected in pairs to only two rods (4), which are fixedly connected to said lateral elements (3) and form, with these, a link means (2), and adjoining link means (2) are articulated to each other by a coupling element (5) arranged therebetween and connected to neighbouring rods (4) of the adjoining link means (2).

WO 2004/005167 A1



European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR,

TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 03/01094

A. CLASSIFICATION OF SUBJECT MATTER IPC7: B65G 21/18, B65G 15/54 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC7: B65G Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched SE,DK,FI,NO classes as above Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) **EPO-INTERNAL** C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category* 1-13 WO 0034160 A1 (AGA AKTIEBOLAG), 15 June 2000 A (15.06.00), page 3, line 15 - page 4, line 15, figure 3, claims 1,3-7,13-17 1-13 SE 469752 B (FRIGOSCANDIA FOOD PROCESS SYSTEMS AB), A 6 Sept 1993 (06.09.93), page 2, line 3 - line 31, figures 2-7, claims 1-6 US 5350056 A (M.L. HAGER), 27 Sept 1994 (27.09.94), 1-13 A column 2, line 19 - column 3, line 41, figures 1-4, claims 1-46 See patent family annex. Further documents are listed in the continuation of Box C. Special categories of cited documents: later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document defining the general state of the art which is not considered to be of particular relevance earlier application or patent but published on or after the international "X" document of particular relevance: the claimed invention cannot be filing date considered novel or cannot be considered to involve an inventive step when the document is taken alone document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination "O" document referring to an oral disclosure, use, exhibition or other being obvious to a person skilled in the art document published prior to the international filing date but later than "&" document member of the same patent family the priority date claimed Date of the actual completion of the international search Date of mailing of the international search report 2 9 -09- 2003 26 Sept 2003 Name and mailing address of the ISA/ Authorized officer Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Igor Gazdik / MRo

Telephone No. + 46 8 782 25 00

Facsimile No. +46 8 666 02 86

INTERNATIONAL SEARCH REPORT Information on patent family members

26/07/03

International application No.

PCT/SE 03/01094

Patent document cited in search report			Publication date	Patent family member(s)		Publication date
0 003	4160	A1	15/06/00	AU	2008700 A	26/06/00
				BR	9916009 A	04/09/01
				CZ	20012044 A	14/11/01
				EE	200100308 A	15/10/02
				EP	1149034 A	
				HR	20010430 A	
				HU	0104137 A	28/03/02
				NO	20012856 A	08/06/01
				NZ	511896 A	28/03/03
				PL	348730 A	
				SE	520136 C	
				SE	9804250 A	09/06/00
SE 40	 59752	 В	06/09/93	AU	627605 B	27/08/92
		_	• • • • • • •	AU	5949190 A	17/01/91
				CA	2063261 A	28/12/90
				DE	69003814 E	T 28/04/94
				EP	0479936 A	
				ES	2044620 1	, , - ·
				JP	5500349 7	
				RU	2015089 (
				SE	8902310 <i>F</i>	
				US	5190143 <i>F</i>	
				WO	9100233 /	10/01/91
JS 53	 50056		27/09/94	AU	7113394	
				EP	0702657	27/03/96
				WO	9429201	22/12/94